

Application No. 09/900,623
Amdt. Dated 08/13/2004
Reply to Office Action of 06/17/04

In The Claims

1. (previously presented) A printer having a printhead assembly for printing on a sheet material disposed on a worksurface, said printhead assembly including a plurality of printing elements, said printer comprising:

a printhead support structure for supporting said printhead assembly;

means for securing said printhead assembly to said printhead support structure; and

means for adjusting angular orientation of said plurality of printing elements of said printhead assembly with respect to said worksurface, said means for adjusting said angular orientation being disposed within said printhead assembly.

2. (original) The printer according to Claim 1 wherein:

said means for securing said printhead assembly to said printhead support structure is a pin for attaching said printhead assembly to said printhead support structure; and

said means for adjusting angular orientation is at least one means for engaging said pin, said at least one means for engaging being supported by said printhead assembly, said at least one means for engaging allowing adjustment of said printhead assembly to properly position said printing elements with respect to said worksurface.

3. (original) The printer according to Claim 2 wherein said pin is a trunnion pin.

4. (original) The printer according to Claim 2 wherein said pin fits through said printhead assembly and engages said printhead support structure.

5. (original) The printer according to Claim 2 wherein said pin includes a recessed portion for said at least one means for engaging to engage said recessed portion of said pin.

6. (original) The printer according to Claim 2 wherein said means for engaging is a set screw fitting into a threaded opening defined within said printhead assembly to

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engage said pin.

7. (original) The printer according to Claim 6 wherein said set screw is adjusted to affect adjustment of said printhead assembly position to orient said printing elements properly with respect to said worksurface.

8. (original) The printer according to Claim 1 wherein said printhead support structure removably supports said printhead assembly.

9. (previously presented) A printer having a printhead assembly for printing on a sheet material disposed on a worksurface, said printhead assembly including a plurality of printing elements, said printer comprising:

a printhead support structure for removably supporting said printhead assembly;

a pin for removably securing said printhead assembly to said printhead support structure, said pin fitting through said printhead assembly and engaging said printhead support structure; and

at least one set screw engaging said pin for adjusting angular orientation of said printing elements of said printhead assembly with respect to said worksurface, said set screw being disposed within said printhead assembly.

10. (original) The printer according to Claim 9 wherein:

said pin fits through an aperture formed within said printhead assembly with said aperture having a first aperture portion and a second aperture portion, said second aperture portion having an oval shape to allow relative movement of said pin and said printhead assembly; and

said set screw fits through a set screw opening formed within said printhead assembly to allow said set screw to engage said pin such that when said set screw is adjusted, relative movement of said pin and said printhead assembly occurs, thereby properly orienting said printing elements with respect to said worksurface.

11. (previously presented) A method for adjusting orientation of a removable

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printhead assembly within a printer, said method comprising the steps of:

positioning said printhead assembly adjacent to a printhead support structure;
securing said printhead assembly to said printhead supporting structure; and
adjusting position of said printhead assembly within said printhead supporting structure for a plurality of printing elements of said printhead assembly to be properly oriented with respect to a worksurface by adjusting means for adjusting orientation of said printing elements with respect to said worksurface, wherein said means for adjusting is disposed within said printhead assembly.

12. (original) The method according to Claim 11 further comprising the steps of:

checking whether said printing elements are properly positioned with respect to said worksurface; and
readjusting said means for adjusting for correcting orientation of said printing elements with respect to said worksurface.

13. (original) The method according to Claim 11 wherein said step of adjusting includes a step of adjusting at least one set screw that engages a pin supporting said printhead assembly within said printhead supporting structure.

14. (previously presented) A printer having a printhead assembly for printing on a sheet material disposed on a worksurface, said printer comprising:

a printhead support structure for supporting said printhead assembly;
means for securing said printhead assembly to said printhead support structure; and

means for adjusting skew of said printhead assembly with respect to an edge of said sheet material, said means for adjusting skew being disposed within said printhead assembly.

15. (original) The printhead assembly according to Claim 14 wherein said means for securing said printhead assembly comprises:

a pin having a pin body and a pin surface, said pin securing said printhead assembly within said printhead assembly structure.

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16. (original) The printhead assembly according to Claim 15 wherein said means for adjusting skew comprises:

at least one cam cooperating with said pin to adjust position of said printhead with respect to said edge of said sheet material.

17. (currently amended) A printer having a printhead assembly for printing on a sheet material disposed on a worksurface, said printer comprising:

a printhead support structure for removably supporting said printhead assembly;

a pin for securing said printhead assembly to said printhead support structure, said pin fitting through said printhead assembly and engaging said printhead support structure; and

at least one cam cooperating with said pin to adjust position of said printhead with respect to an [said] edge of said strip material.

18. (original) The printhead assembly according to Claim 17 wherein:

said pin fits through an aperture formed within said printhead assembly; and

said cam fits through a cam opening formed within said printhead assembly to allow said cam to cooperate with said pin such that when said cam is adjusted, said printhead assembly is moved relative to said edge of said sheet material for proper printing operation.

19. (original) The printhead assembly according to Claim 18 further comprising:

at least one cam screw positioned in a cam screw opening formed within said printhead assembly substantially adjacent to said cam to maintain said cam in place.

20. (previously presented) A method for adjusting skew of a printhead assembly with respect to an edge of a strip material disposed on a worksurface, said method comprising the steps of:

positioning said printhead assembly adjacent to a printhead support structure; securing said printhead assembly to said printhead support structure; and

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adjusting a mechanism for adjusting skew of said printhead assembly with respect to an edge of strip material to ensure proper orientation of said printhead assembly with respect to said edge of said strip material disposed on said worksurface, with said mechanism for adjusting skew being disposed within said printhead assembly.

21. (original) The method according to Claim 20 further comprising the steps of:

 checking whether said printhead assembly is printing properly with respect to said edge of said strip material disposed on said worksurface; and

 readjusting said mechanism for adjusting skew to ensure proper orientation of said printhead assembly with respect to said edge of said strip material disposed on said worksurface.

22. (original) The method according to Claim 20 wherein said step of adjusting comprises the step of:

 adjusting at least one cam to engage a pin securing said printhead assembly to said printhead support structure for proper positioning of said printhead assembly.

23. (previously presented) A printer having a printhead assembly for printing on a sheet material disposed on a worksurface, said printhead assembly including a plurality of printing elements, said printer comprising:

 a printhead support structure for supporting said printhead assembly;
 means for securing said printhead assembly to said printhead support structure;

 means for adjusting angular orientation of said printing elements of said printhead assembly with respect to said worksurface, said means for adjusting said angular orientation being disposed within said printhead assembly; and

 means for adjusting skew of said printhead assembly with respect to an edge of said sheet material.

24. (original) The printer according to Claim 23 wherein:

 said means for securing said printhead assembly to said printhead support

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structure is a pin for attaching said printhead assembly to said printhead support structure;

said means for adjusting angular orientation is at least one set screw engaging said pin for adjusting angular orientation of said printing elements of said printhead assembly with respect to said worksurface; and

said means for adjusting skew is at least one cam cooperating with said pin to adjust position of said printhead with respect to said edge of said strip material.